1 Docket No. CBM-001.02

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3 <u>FLOW SCHEDULING FOR NETWORK APPLICATION APPARATUS</u>

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5 <u>ABSTRACT OF THE DISCLOSURE</u>

6 A method and system for distributing flows between a multiple

7 processors. The flows can be received from an external source

8 such as a network, by a front-end processor that recognizes the

9 flow and the associated request, and identifies at least one

10 internal applications processor to process the request/flow. The

11 front-end processor utilizes a flow scheduling vector related to

12 the identified applications processor(s), and the flow scheduling

13 vector can be based on intrinsic data from the applications

14 processor(s) that can include CPU utilization, memory utilization,

15 packet loss, and queue length or buffer occupation. In some

16 embodiments, applications processors can be understood to belong

17 to a group, wherein applications processors within a group can be

18 configured identically. A flow schedule vector can be computed

19 for the different applications processor groups. In some

20 embodiments, a control processor can collect the intrinsic

21 applications processor data, compute the flow scheduling vectors,

22 and transfer the flow scheduling vectors to the front-end

23 processor.